

MA 071978

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Round No. V-37 & V-38	6. PERFORMING ORG. REPORT NUMBER
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Meteorological data gathered for the launching of & 1064, Round No. V-37 & V-38, are presented in	
Meteorological data gathered for the launching o	tabular form.

UNCLASSIFIED

1 SECURITY CLASSIFICATION OF THIS PAGE (When Date Entered)

SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered) Missile No. 1067 & 1064 Round No. V-37 & V-31 10 Piles 10 Po 1411 & 10c4, Mound to, V-37 & V-38, are oresented to thoular form

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INTRODUCTION

19305BT GSRS , Missile Numbers 1067 and 1064 , Round Numbers y-37 and y-38 , were launched from LC-33 , White Sands Missile Range (WSMR), New Mexico, at 0834 and 0834:03 MDT, 12 June 1979 . The scheduled launch times were 0830 and 0830:02 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (qm/m^3), wind direction and speed, and cloud cover were made at the <u>LC-33</u> Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction from one anemometer was also provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-33 1080 meters (30-meter increments) 0842 MDT

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to 89,500 feet in 500-feet increments.

SITE AND TIME

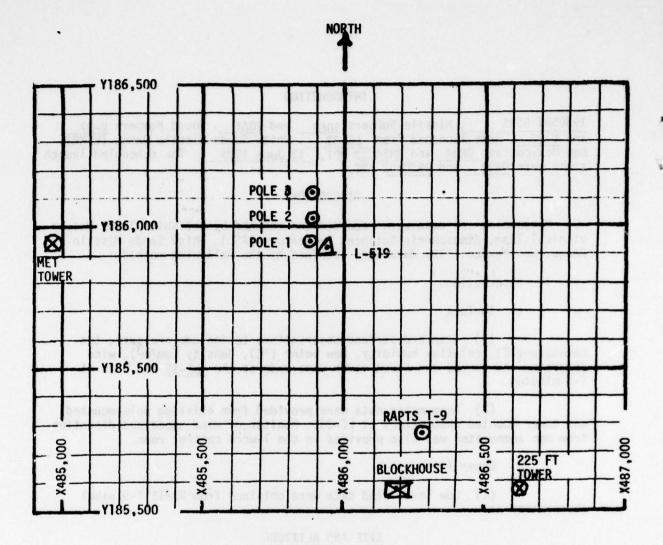
SMR 0740 MST

Accession For

NTIS GRA&I
DDC TAB
Unamnounced
Justification

By
Distribution/
Availability Codes

Availand/or
special



- MET TOWER 4 Bendix Model T-120 Anemometers at 12 ft, 62 ft, 102 ft and 202 ft with E/A recorders.
- 2. POLE ANEMOMETER Bendix Model T-120 with E/A recorders.
 - (a) Pole #1 38.7 ft
 - (b) Pole #2 53.0 ft
 - (c) Pole #3 83.6 ft
- 3. 225 FT WIND TOWER 5 Bendix Model T-120 Anemometers at 35 ft, 88 ft, 128 ft, 168 ft and 200 ft with 5 X-Y visual indicators in Blockhouse.
- 4. RAPTS T-9 Radar Automatic Pilot-Balloon Tracking System T-9 Radar

TABLE 1. SURFACE OBSERVATIONS TAKEN AT 0842 MDT, 12 JUNE 1979 AT LC-33, 19305BT GSRS, MISSILE NUMBERS 1067 AND 1064, ROUND NUMBERS V-37 AND V-38

ELEVATION	3977.30	FT/MSL
PRESSURE	887.9	MBS
TEMPERATURE	17.5	•c
RELATIVE HUMIDITY	48	z
DEW POINT	6.4	°C
DENSITY	1058	GM/M ³
WIND SPEED	Calm	MPH
WIND DIRECTION	Calm	DEGREES
CLOUD COVER	Clear	4 , 2929 1

00.STO. 081Y

39.7. ft. Att.

TABLE 2. LC-33 FIXED POLE ANEMOMETER-MEASURED WINDS

	POLE #1	surei I	As at	POLE #2		DATE OF THE PARTY	POLE #3	
T-TIME SEC	DIR DEG-	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED
-30	000	00	-30	000	00	-30	000	00
-20	000	00	-20	000	00	-20	000	00
-10	000	00	-10	000	00	-10	000	00
0.0	000	00	0.0	000	00	0.0	000	00
+10	.000	00	+10	000	00	+10	000	00

Type from	1930 LC-	05B 33	<u>T </u>	GSRS	-, M ¹	issile June	No. 1979	1067, 1 at	0834 MDT	d No.	V-37,	<u>V-</u> 3i	3 launch	ed
	POLE	#1	=	X485	,874	.29	Y185	,958.90	р н4018	3.74	38.7	ft.	AGL	
	POLE	#2	=	X485	,874	.93	Y186	,012.00) H4033	.57	53.0	ft.	AGL	
	POLE	#3	=	X485	,877	. 29	Y186	,116.06	5 н4063	.92	83.6	ft.	AGL	

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

TABLE 3. LC-33 METEOROLOGICAL TOWER ANEMOMETER-MEASURED WINDS (202 FT. TOWER)

TABLE 4. PTINT-BALLDON-MEASURID WIND DATA (30-METER INCREMENTS)

			1		
DINECTIO	EVEL #1 12 ft.	N. I	0389 108	EVEL #2 62 ft.	
T-TIME SEC	DIR	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	000	00	-30	000	00
-20	000	00	-20	039	2.0
-10	000	00	-10	039	2.0
0.0	000	00	0.0	039	0.5
+10	000	00	+10	000	00
1981 L	EVEL #3 102 ft.		8.4	EVEL #4 202 ft.	
T-TIME SEC	DIR DEG	SPEED MPH	T-TIME SEC	DIR DEG	SPEED MPH
-30	000	00	-30	064	1.0
-20	000	00	-20	064	1.0
-10	000	00	-10	064	1.0
0.0	000	00	0.0	064	1.0
+10	000	00	+10	064	1.0

WTSM Coordinates: X484,982.64 Y185,957.73 H3983.00 (base)

Type 19305BT GSRS , Missile No. 1067, 1064 , Round No. y-37, y-38 launched from 1C-33 on 12 June 1979 at 0834 MDT .

NOTE: Wind directions are referenced to the firing azimuth or true north true north .

TABLE 4. PILOT-BALLOON-MEASURED WIND DATA (30-METER INCREMENTS)

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
SFC	Calm	Calm
30	054	1.0
60	107	2.0
90	106	3.0
120	105	4.0
150	108	4.0
180	110	3.5
210	.107	4.5
240	103	5.0
270	113	4.5
300	122	4.0
330	150	
360	178	

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
390	152	4.0
420	182	3.5
450	188	5.0
480	194	6.3
510	192	6.5
540	190	7.0
570	189	7.5
600	187	8.0
630	184	8.0
660	180	7.5
690	179	8.0
720	177	8.0
750	174	8.5

Release Point Coordinates (WSTM): X486,037.24 Y486,037.24 II3977.30

Released from LC-33 on 12 June 1979 at 0834 MDT.

Type 19305BT GSRS , Missile No. 1067, 1064, Round No. V-37, V-38 launched from LC-33 on 12 June 1979 at 0834 MDT.

NOTE: Wind directions are referenced to the firing azimuth or true north true north.

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
780	170	9.0
810	171	9.0
840	171	8.5
870	172	7.5
900	172	8.5
930	168	5.5
960	164	4.0
990	152	3.5
1020	140	3.0
1050	132	2.5
1080	123	2.0
1110		
1140	·	
1170	ar hat are	4 C A C + 6
1200	7 (77 (17)	
1230	anaabbbb	0.920020
1260	\$ 11 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	fy 3000 5 N 3 E 85 0 B 3 5 5
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1320	2020202	22285
1350		1
1380		
1410		

HEIGHT METERS AGL	DIRECTION DEGREES	SPEED MPH
1440		
1470	19	
1500	8	
1530	1	
1560	i i	2 1
1590		g.
1620		
1650		
1680	a 43	
1710	A 6.0	2
1740	30.0	20
1770	100	
1800	0.84	
1830	· 中京日 古 前京	
1860	9.	512
1890	* AE3	
1920	£ 10 5	
1950	# 20 %	
1980	00 44 F2 00 44 H2 10 15 H2	
2010		
2040		1
2070		5

STATION ALTITUDE 3997.30 FEET MSL. 12 JUNE 79 0740 HRS MST ASCENSION NO. 101

SIGNIFICANT LEVEL DATA 1630060161 S M R

GEODETIC COORDINATES 32-48034 LAT DEG 106-42307 LON DEG

REL.HUM. PERCENT TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET 3997.3 11111.3 105112.7 11111.3 105111.3 105111.3 105111.3 105111.3 30505.3 30505.3 40730.6 42843.3 4665779.7 6665779.7 51358.7 54664.3 588128.3 58850.0 63123.7 64082.9 646823.3 73165.1 795165.1 88500.2

	EL MOL
S JUNE 19 UNE HAS MS.	S MS:

UPPER AIR DATA 1630060181	S X

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL 163060181
12 JUNE 79 0740 HRS MST S M R
ASCENSION NO. 181

39

GEONETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

10000330	INDEX OF REFRACTION	1.000130	1.000128	1.000126	1.000124	1.000122	1.000120	1.000118	1.900116	1.000114	1.000112	1.000110	1.000108	1.000107	1.000105	1.000103	1.000101	1.000099	1.000097	1.000096	1.000094	1.000092	1.000091	1.000089	1.000088	1.000086	1.000085	1.000063	1.000082	1.000080	1.000079	1.000077	1.000076	1.000074	1.000073	1.000072	1.000070	1.000069	1.000067	1.000066	1.000065
	SPEED KNOTS	10.3	10.1	9.6	9.3	8.7	8.6	9.3	9.5	9.5	9.6	10.3	11.9	14.2	17.5	21.4	25.7	27.5	28.6	29.7	31.1	32.9	34.9	36.2	37.7	38.4	39.1	38.9	38.5	37.2	36.1	35.5	35.2	35.9	36.4	36.4	36.4		36.3		38.5
	WIND DATA DIRECTION SP DEGREES(TN) KN	43.7	D. ++	41.1	36.3	26.2	12.3	356.4	343.8	331.2	329.2	329.3	333.8	332.9	324.1	323.8	320.3	317.8	•	311.2	307.1	303.6	300.4	298.0	295.7	292.8	290.5	5-067	291.7	292.6	293.1	500.5	269.5	248.8	288.8	290.1	291.2	50062	290.6	289.7	288.4
	SPEED OF SOUND KNOTS	653.9	622.4	650.9	4.619	618.0	610.0	615.2	613.8	612.4	611.0	9.609	608.2	606.8	605.3	603.9	602.0	601.3	0.009	598.8	597.5	596.5	594.9	593.2	591.5	589.8	568.1	586.8	585.4	584.1	582.7	581.4	580.0	578.6	577.3	575.9	574.9	574.1	573.4	572.6	571.5
	DENSITY S GM/CUBIC METER	577.6	568.9	260.4	552.0	543.0	534.1	525.4	516.8	508.3	200.0	-	483.9	-	468.3	460.7	452.7	445.0	437.3	429.5	421.9	414.5	407.2	400.5	393.9	387.4	380.9	373.6	366.9	360.2		347.0	340.6	334.4	328.3	322.3	315.9	309.5	302.7	296.4	290.5
	REL.HUM. PERCENT	15.5	15.6	15.8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.6	16.7	16.8	16.9	16.1**	10.0*	**0.4																							
	ADE	-36.9	-37.8	-38.7	-39.6	-40.5	-41.4	-42.3	-43.2	-44.1	6.44-	-45.8	-46.7	-47.7	-48.6	6.64-	-54.7	-62.7																							
	TEMPERATURE AIR DEWPOI DEGREES CENTIGR	-16.7	-17.9	-19.5	-50.4	-21.6	-22.7	-23.8	-24.9	-26.1	-27-2	-28.3	-29.5	-30.6	-31.7	-32.9	-33.9	-34.9	-35.9	-36.9	-37.9	-38.9	-39.9	-41.3	-45.6	0.44-	-45.3	-46.3	-47.3	4-84-	t.64-	-20.5	-51.5	-55.5	-53.6	-54.6	-55.4	-56.0	-56.5	-57.1	-58.0
Tables	PRESSURE MILLIBARS	425.3	416.9	408.6	4000	35	3	376.1	58	360.6	353.1	345.7	338.5	231.5	354.6	917.8	311.0	304.5	297.7	291.2	284.9	27817	272.6	566.6	560.6	254.8	246.5	243.4	237.8	232.4	227.1		216.7	211.8	200.9	202.2	197.4	192.8	186.2	8	179.4
125 6 M	GEOMETRIC ALTITUDE MSL FEET	-	-	-	-								0.00067							32500.													29000.0		•	0200	1000	1500.	2000-	2500.	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

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GEOMETHIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES (TIL)	DATA SPEED	INDEX OF REFRACTION
-	175	-59.4			569.6		37.9	
0.00044	170.	9.09-		280.1	568.0	268.6	37.3	1.000062
-	166	-61.4			566.		36.4	•
	162.	-62.2			565.		35.5	•
		-63.0		263.2		290.5	34.7	•
	154.	-63.8		-		-	34.2	.0000
	151.	9.49-		-	562.	292.7	33.7	.00005
	147.	-65.6		-	561.3	294.2	33.0	.00005
	143.	-66.5		-	560.0	295.7	32.3	.00000
	140.	-67.5			558.7	299.8	30.7	.0000
•	136.	-68.1		232.3	557.9		1	.0000
	133.	-68.5		226.9	557.4	308.3	27.4	
	130	-68.8		221.6	550.9	311.6	24.7	
•	126.	-69.2		216.4	550.4	316.2	22.0	-
	123.	-69-5		211.4	556.0	316.5	20.3	+00000
	120.	-69.8		206.4	555.5	315.8	18.8	*0000·
	117.	6.69-		201.3	555.4	5	17.5	+00000
52000.0		-69.3		195.7	556.2	316.8	17.3	1.00004
	111.	-68.7		190.5	557.0	318.4	17.1	•
	108.	-69.2		185.9	556.4	321.1	16.5	•
	106	9.69-		181.6	555.8	325.0	15.8	
	103.	-70.1		177.5	555.1	329.6	15.1	+00000
	100	-70.F		173.4	2. 15.		14.5	.00003
	98	-10.6		169.1	554.4		13.5	.00003
	45.	9.01-		164.8	554.5	ė	12.9	.00003
	93.	-70.5		160.6	554.0	349.8	12.4	
	.16	-10.4		156.4	224.7	:	11.6	.0000
	88	-70.3		152.4	554.9		10.5	
	86.	-70.2		148.5	555	9.0	9.6	
	94.	-70-1		144.7	555.	20.4	10.6	1.000032
	82.	-68.3		139.9	557.	29.8	12.2	•
	8	-66.7		135.3		36.3	13.6	1.000030
	78.	-66.6		131.9	559.	41.0	13.9	
000	76.	-66.5		128.6	560.0	45.5	14.2	.00002
:	- 12	-66.4		125.4	560.	51.1	14.0	
:	72.	-66.3		122.2		57.6	13.6	.00002
01500.0	-02	-66.2		119.1	560	6.59	13.4	
÷	69	3		115.7		9.79	13.5	00000
2500.	67.	-63.8		112.1	563	71.1	12.3	0000
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STATION ALTITUDE 1997.30 FEET MSL 12 JUNE 79 0740 HRS MST ASCENSION NO. 181

UPPER AIR DATA 1630060181 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

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STATION ALTITUDE 3997.39 FEET MSL 12 JUNE 79 0740 MRS MST ASCENSION NO. 181

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INÚEX OF REFRACTION	1.000009 1.000009 1.000009 1.0000007 1.0000007 1.0000007 1.0000007
SPEED KNOTS	80111111111111111111111111111111111111
OF WIND DATA DIRECTION SPEE DEGREES(TN) KNOT	1000 1000 1000 1000 1000 1000 1000 100
SPEED OF SOUND KNOTS	00000000000000000000000000000000000000
DENSITY GM/CUBIC METER	800 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
REL.HUM. PERCENT	
TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	
TEMP AIR DEGREES	20000000000000000000000000000000000000
PRESSURE MILLIBARS	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
GEUMETHIC ALTITUDE MSL FEET	8350000 850000 850000 850000 8700000 8750000 8750000 8900000

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	STATION ALTITUDE 3997.30 FEET MSL 12 JUNE 79 0740 HRS MST ASCENSION NO. 181
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GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

GEOPOTENTIAL ALTITUDE UECAMETERS	DIRECTION DEG (TN)	SPEED	DATA N-S MPS	M N N N N N N N N N N N N N N N N N N N	DEW PT DEP DEG C	TEMPERATURE AIR DEG C	PRESSURE
2726.	****6666	****6666	*******		. 8	7- 77-	
2685.	****6666	***6666	*** 6666-		66	-43.6	
2414.	97.	10.			66	1.91-	
2221.	.89	12.	*		66	-54.3	
2084.	100.	•	1.		66	-56.9	
1946.	75.		-5.		3	-62.7	
1917.	74.		-2.		66	-61.9	
1575.	•99	7.	-3-		66	-66.2	
1788.	35.	7.	-9-		8	66.7	
1766.	23.	•	-5.		66	-70.1	
1061.	338.	7.	-7.		66	70.7	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL 12 JUNE 79 0740 HRS MST ASCENSION NO. 181

MANDATORY LEVELS 1630960181 S M R

GEODETIC COORDINATES 32-48034 LAT DEG 106-42307 LON DEG

PRESSURE	GEOPOTENTIAL	A	TEMPERATURE R DEMPOINT	REL . HUM. PERCENT	WIND DIRECTION	~	
MILLIBARS	FEET	DEGREES	CENTIGRADE		DEGREES	(TN) KNOTS	
850.0	5139.	16.3	*:	32.	0.6666	XX0.6666	
800.0		14.5	-1.3	34.	0.6666	XX0.6666	
750.0		12.7	4.6-	32.	81.3	10.8	
700.0		11.3	-11.5	19.	63.9	17.0	
650.0		8.3	-16.3	16.	76.6	8.7	
0.009		3.2	-50.6	15.	49.5	9.8	
550.0		-1.8	-25.2	15.	36.9	10.5	
500.0		-6.7	-29.7	14.	20.0	10.7	
450.0		-13.2	-34.3	15.	37.5	10.1	
400.0		-20.5	-39.7	16.	36.0	6.6	
350.0		-27.7	-45.3	17.	328.4	9.6	
300.0		-35.6	-	-	316.4	28.5	
250.0	35848.	-45.1			290.5	39.0	
200.0		-55.1			290.7	36.4	
175.0		-59.4			288.7	37.9	
150.0		6.49-			293.1	33.5	
125.0		-69.3			316.8	21.1	
100.0		-70.7			337.9	14.0	
80.0		-66.7			36.5	13.6	
70.07		-66.2			65.3	13.4	
0.09		-61.7			72.0	10.0	
50.0		-56.9			101.1	11.1	
40.0		1.45-			4.8.4	23.8	
30.0		4.94-			7.96	19.9	
25.0		-45.1			10001	16.3	
20.0		-43.6			3	Transfer of the second	

. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE MAS USED IN THE INTERPOLATION. XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3997.30 FEET MSL 12 JUNE 79 0740 HRS MST ASCENSION NO. 181

MRN MANDATORY LEVELS 1630060181 S M R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

GEOPOTENTIAL		QNIM	DATA			TEMPERATURE		
ALTITUDE DECAMETERS	DIRECTION DEG (TN)	SPEED	N S S	MPS	DEW PT DEP	AIR DEG C	PRESSURE MILLIBARS	
2005.	***6666	***6666	****6666-		. 6	-43.6	2.000+1	
2535.	100.	.6	2.	-6-	66	-45.1	2.500+1	
2414.	97.	10.		-10-	66	1.91-	3.000+1	
2226.	•69	12.	-#-	-11-	66	-54.1	4.000+1	
2084.	101.	•	•	••	66	-56.9	5.000+1	
1970.	73.	.00	-2.	•	3	-61.7	1+000-9	
1675.	65.	7.	-3.	٠	66	-66.2	7.000+1	
1754.	36.	7.	-6-	†	66	66.7	8.000+1	
1001.	338.	7.	-7.	•	56	-70.7	1.000+2	
1528.	317.	111.	-8-	7.	66	-69.3	1.250+2	
1418.	293.	17.	-7.	16.	66	6.49-	1.500+2	
1323.	289.	19.	-9-	18.	66	-59.4	1.750+2	
1236.	291.	19.	-7-	18.	66	-55.1	2.000+2	
1093.	290.	20.	-7.	19.	66	-45.1	2.500+2	
968.	316.	14.	-10.	10.	66	-35.6	3.000+2	
859.	328.	5.		3.	18	-27.7	3.500+2	
762.	36.	5.		?	19	-20.5	4.000+2	
	37.	5.	. 7		21	-13.2	4.500+2	
9 592.	21.	5.	-5-	-2.	23	-6.7	5.000+2	
517.	37.		. 1	-3.	23	-1.8	5.500+2	
++7.	·6+	**	-3.		54	3.2	6.000+2	
382.	7.		-1- deg	. 7	25	8.3	6.500+2	
320.	• #9	.6		-9-	63	11.3	7.000+2	
262.	81.	•	-1-	-5-	16	12.7	7.500+2	
208.	****6666	*** 6666		-***6666-	16	14.5	8.000+2	
157.	****6666	****6666	*** 6666-	***6666-	17	16.3	8.500+2	

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.